PTO/SB/08A (08-03)

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use as many sheets as necessary)

Sheet 1 of 4 Attorney Docket Number | 1482/162(g)

			U. S. PATENT	T DOCUMENTS		
Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan	
initials No.	Number-Kind Code ^{2 (f known)}		Application of the Booking in	Figures Appear		
THE STATE OF THE S		^{US-} 426,546	04-29-1890	Reed		
1		^{US-} 524,475	08-14-1894	Wheeland		
		US- 1,181,027	04-25-1916	Mannhardt		
		^{US-} 1,520,345	12-23-1924	Hamilton		
		^{US-} 1,947,772	02-20-1934	Harris		
		^{US-} 2,192,622	03-05-1940	Radtke		
		^{US-} 2,614,840	10-21-1952	Monkres		
	•	US- 2,732,210	01-24-1956	Heide		
		^{US-} 3,383,111	05-14-1968	Lucas		
		^{US-} 3,531,114	09-29-1970	Parks et al.		
		us- 3,797,828	03-19-1974	Ishikawa et al.		
		^{US-} 3,807,736	04-30-1974	Goldfarb et al.		
		^{US-} 3,825,265	07-23-1974	Pitkanen et al.,	-	
		^{US-} 3,897,951	08-05-1975	Morrison et al.		
		US- 4,055,342	10-25-1977	Matsumoto		
	•	^{US-} 4,055,344	10-25-1977	Soucie		
		^{US-} 4,508,336	04-02-1985	Yokoi		
		^{US-} 4,840,375	06-20-1989	Lawlor et al.		
X		^{US-} 4,871,171	10-03-1989	Rivero		

		FOREI	GN PATENT DOCU	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	1⁴
×		DT 2 359 603	06-27-1974	Weickmann et al.		
		DE 32 20 395 A1	12-15-1983	Gauselmann		
		EP 0 189 256 A2	07-30-1986	Clarke		
		GB 2 218 558 A	11-15-1989	Castellanos		
		JP 3-68382	03-25-1991			
V		JP 4-73076	03-09-1992			

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Sheet 2

Examiner

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known				
Application Number				
Filing Date	Herewith			
First Named Inventor	Jesse E. Pierce			
Art Unit				
Examiner Name				
Attorney Docket Number	1482/162(a)			

	•		U. S. PATEN	DOCUMENTS		
Initials* No.1 Numb		Document Number Publicati		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, When Relevant Passages or Relevar Figures Appear	
		Number-Kind Code ^{2 (F known)} US- 5,004,238	04-02-1991	Okada	- намения	
X						
		^{US-} 5,016,879	05-21-1991	Parker et al.	ļ	
		^{US-} 5,120,060	06-09-1992	Parker et al.		
		^{US-} 5,131,655	07-21-1992	Ugawa		
- 1.		^{US-} 5,149,095	09-22-1992	Kashimoto et al.		
	·	^{US-} 5,241,379	08-31-1993	Tsujita		
		^{US-} 5,342,049	08-30-1994	Wichinsky et al.		
		^{US-} 5,393,057	02-28-1995	Marnell II		
		^{US-} 5,462,277	10-31-1995	Takemoto		
		^{US-} 5,494,287	02-27-1996	Manz		
		^{US-} 5,509,655	04-23-1996	Ugawa		
		^{US-} 5,516,104	05-14-1996	Takemoto et al.		
		^{US-} 5,542,669	08-06-1996	Charron et al.		
	•	^{US-} 5,603,659	02-18-1997	Okada		
		^{US-} 5,628,685	05-13-1997	Takemoto et al.		
		^{US-} 5,636,837	06-10-1997	Takemoto et al.		
		^{US-} 5,664,775	09-09-1997	Kao		
1		^{US-} 5,707,285	01-13-1998	Place et al.		
X	- 7	^{US-} 5,788,230	08-04-1998	Krise et al.		

			GN PATENT DOCL	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Γ
	Country Code ³ Number ⁴ Kind Code ⁵ (# known)	Or Relevant Figures Appear				
200	_	EP 0 671 713 A1	09-13-1995	Okada	1	
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Sheet 3 of 4 Attorney Docket Number

| Complete if Known |
| Application Number |
| Filing Date | Herewith |
| First Named Inventor | Jesse E. Pierce |
| Art Unit |
| Examiner Name |
| Attorney Docket Number | 1482/162(g)

U. S. PATENT DOCUMENTS Name of Patentee or Pages, Columns, Lines, Where Examiner Cite Document Number Publication Date MM-DD-YYYY **Applicant of Cited Document** Relevant Passages or Relevant Initials* Number-Kind Code² (F known) Figures Appear ^{US-} 5,845,902 12-08-1998 Takemoto 9X ^{US-} 5.846,902 Boyles et al. 12-08-1998 US- 5,882,261 Adams 03-16-1999 US- 6,047,963 04-11-2000 Pierce et al. ^{US-} 6,139,013 10-31-2000 Pierce et al. US- 6,203,008 03-20-2001 Krise et al. US-6,203,009 03-20-2001 Sines et al. US-6,220,593 04-24-2001 Pierce et al. US- 2001/0009316 A1 07-26-2001 Krise et al. US-2001/0009317 A1 07-26-2001 Sines et al. US-6,340,158 Pierce et al. 01-22-2002 ^{US-} 6,358,146 03-19-2002 Adams US- 6.398,219 06-04-2002 Pierce et al. US- 6.398,644 06-04-2002 Perrie et al. US-6,419,225 07-16-2002 Sines et al. US-6,419,226 07-16-2002 Krise et al. US- 2002/0180145 A1 Krise et al. 12-05-2002 US- 2002/0180146 A1 12-05-2002 Sines et al. ^{US-} 6,619,659 09-16-2003 Krise et al.

		FORE	IGN PATENT DOCU	MENTS		
Examiner Initials*	Cita No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
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(Use as many sheets as necessary)	Examiner Name		
Sheet 4 of 4	Attorney Docket Number	1482/162(g)	

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	No.¹	Number-Kind Code ² (F known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevan Figures Appear
X		^{US-} 6,645,071	11-11-2003	Perrie et al.	
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Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
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